the RARS Exciter

Raleigh Amateur Radio Society

RARS

Worldwide Friendship

March, 2003 Number 384

ARRL KIDS DAY ON JANUARY 4, 2003

Lauren and Bobby, harmonics of K4RLC, enjoyed Kid's Day, working Amber at VE3RCN and Josh VA3HHH on 20 meter SSB.

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SPECIAL SERVICE CLUB

The Exciter

The ***Exciter*** is the monthly newsletter of the Raleigh Amateur Radio Society. It is available in both printed and electronic form. The printed version is mailed to members just before each club meeting. The electronic form, in Adobe Acrobat PDF format, is e-mailed about a week earlier.

We solicit both articles and advertising. The deadline for submissions is first Friday of the month or Friday after the monthly meeting. Contact the Editor.

The views contained in the Exciter are those of the individual authors, and are not necessarily the views of the Editor, or the Raleigh Amateur Radio Society.

The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the Amateur Radio community in the greater Triangle area. In 1999, we incorporated a new RARS, and obtained 501(c)(3) Non-Profit tax status.

The objectives of the club are to promote worldwide friend-ship through Amateur Radio; to be of public service by providing radio communications in times of disaster, emergency, or civic need; to educate members in radio technique; and to provide training classes to assist in obtaining Amateur Radio licenses.

Anyone interested in Amateur Radio is eligible to apply for membership. Dues for regular licensed amateurs are $18.00 per year (from July 1 through June 30). Additional immediate family members pay $5.00 each per year. Dues for licensed amateurs older than 59 or younger than 16 are $12.00 per year. Dues for non-licensed Associate members are $9.00 per year.

Applications for membership may be obtained from the treasurer, or the RARS web site (www.rars.org).

Officers

President: **Bernard Blackmon W4BRB**
919-467-8719
bernardb@mindspring.com

Vice-President: **Andy Peterson NI4S**
919-845-6251
ni4s@arrl.net

Secretary: **Jim Walter KG4FIJ**
919-468-5358
jwalter@nc.rr.com

Treasurer: **Greg Seamster KE4PAX**
919-859-0029
ke4pax@arrl.net

Exciter Editor: **Denyse Walter KG4CXR**
919-468-5358
kg4cxr@nc.rr.com

INFO
RARS Repeaters in Raleigh:
145.13
146.64
224.64
444.525 (88.5 PL)

WEB SITE http://www.rars.org

NEXT RARS MEETING: MARCH 4, 2003 HAPPY BIRTHDAY RARS PARTY

MAY MEETING WILL BE MAY 13, 2003 PLEASE MARK YOUR CALENDAR

RALEIGH AMATEUR RADIO SOCIETY MEETINGS

Date: Every first Tues of the Month

Location: Forest Hills Baptist Church, at Dixie Trail and Clark Avenue, in Raleigh

Time: 7:30pm, Folks start showing up a bit before 7 to chat, brag and eat donuts.

VE TESTING: The RARS VEs will accept walk-in testing which is on even months except April and December. Please bring a photo ID, your original current license if you have one, and any CSCEs you need for credit.. Check into the 8:00 pm net every night on the 146.64 repeater or www.rars.org for information.

ODYSSEY OF THE MIND
Saturday March 8, 8:00-5:00 pm lunch provided
Wakefield High School in Raleigh.
There will be about 400 students competing in problem solving events throughout the day. Please - if you could work a full day or a half day let me know. This is inside duty - function as shadow in tournament rooms, registration, director, etc.
Contact Dick KD4ISC— 919-469-5322

MS Walk RTP
April 5th, 2003
Time: 7:30 am — 1:00 pm

SPECIAL REQUEST FOR ASSISTANCE WITH RADIO NEWS HOUR

We are looking for someone to share responsibilities for playing the ARRL Radio Newshour every Sunday following the 8 PM net. The equipment needed for this is an interface between your computer and radio, such as a Rigblaster, as well as software to play a MPEG file. If you have questions or would like to volunteer, please contact Liz KF4UQZ or Mary KG4OQA.

MAY RARS MEETING WILL BE ON 2ND TUES

The *MAY* RARS meeting will be held on the 2nd Tuesday, May 13, This move is for May 2003 only, at the request of our host, the Forest Hills Baptist Church. The church has a large conference scheduled for the first Tuesday that requires all the large meeting rooms. RARS will maintain its regular 1st Tuesday date for all other meetings.

All RARS members can obtain a membership card by calling Denyse KG4CXR 919-468-5358 or email KG4CXR@nc.rr.com

FM Committee – RARS Tech Support meetings are held on the 5th Tuesday of any month that has 5 Tuesdays. Meetings are held at Danny Musten's office (KD4RAA)

The Raleigh Amateur Radio Society is now accepting credit card payments online for new members and membership renewals. You can join or renew your membership completely online using a secure credit card payment process.

See the RARS website www.rars.org for more information to sign up for RARS membership or renew for 1, 2 or 3 years

146.88 145.39, 147.105, & 147.135 Repeaters are supported by PCRN if you would like to donate please make checks to:
PCRN
PO Box 12734
Raleigh, NC 27605

More info on PCRN:
Http://www.pcrn.net

NET REPORTS FOR January, 2003

- 8:00PM DAILY: RARS Evening Net
- 9:00PM MON: SWL SIG
- 8:30PM SAT : Tech & Traders net

Total Net Activity:
Minutes: 564
Check-Ins: 424 in 31 Sessions
Traffic : 36 brought 34 passed

ANTENNAS FOR BEGINNING HAMS

By Max KO4TV

Part I of a Two Part Article on Antennas

One of the most challenging, and yet rewarding, aspects of Ham Radio is the construction and installation of antennas. Since most, if not all, beginning Hams use commercially manufactured transceivers and other equipment, antennas are among the only items left to the imagination and ingenuity of beginning Hams. Even if you decide to purchase a commercially available antenna, there are many pitfalls to avoid. Just as "patriotism is the final refuge of the scoundrel," antenna advertising is sometimes the refuge of scoundrels, with the unsuspecting ham being the victim. Some unscrupulous vendors will advertise that their antennas will "punch holes through mountain ranges," "violate all laws of physics," and otherwise perform miracles beyond belief. As my wise old pappy always said, "Son, anything that sounds too good to be true usually is." So, before getting into any details of antenna construction, let us clear the air about their claims.

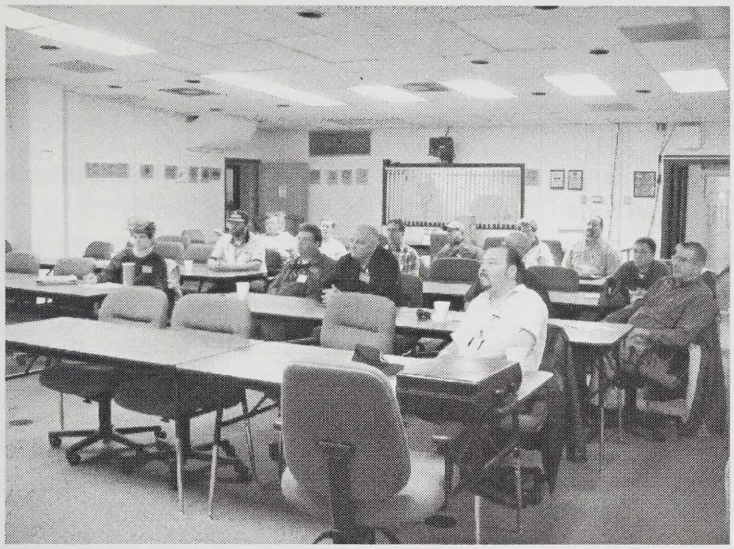
First, we need to become familiar with the different types of antennas, their strengths and limitations, and how they compare with one another. Antennas are commonly described in several categories: polarization, beam width, front-to-back ratio, Radiation angle, and most importantly, GAIN! Therein lies the basis of most misunderstanding: an antenna is a passive device, and as such, can have NO gain in and of itself! When an antenna is referred to as having gain, it is always in comparison with another antenna, usually one of lesser "gain." Just as soap manufacturers always claim their products "get clothes cleaner," the first question should be, "gets them cleaner than what? Another soap product, or a mixture of chimney soot and North Carolina red mud?". The same applies to antennas. Any antenna claiming "gain" should specify what it is being compared to. Antenna gain performance is usually expressed in Decibels, or dB, a unit of measurement named for Dr. Alexander Graham Bell.

A dB is not a fixed unit, like an inch, a gallon or a pound, but is a ratio of power, voltage, sound level, etc. There are two standards by which most antennas are measured: The dBi (Decibels of gain over an isotropic antenna), and the dBd (Decibels of gain over a half-wave dipole). The dBi is rarely used in Ham Radio, except for measurements of parabolic dish antennas used for microwave communications. It is the theoretical radiation pattern of an antenna which radiates energy equally in all directions, which is impossible in the real world. A much more common and useful measurement is the dBd, or Decibels over a half-wave dipole, which is a real antenna and is readily available for comparison to the average ham. The Decibel is a unit of ratio, equivalent to an increase or decrease of about 26% from the standard of comparison. Thus, a 1 dB gain represents an increase of about 26%. 2 dB represents an increase of about 26% over the last figure, 3 dB about another 26%, and so on. Thus, as you can see, a dB is not a fixed amount, but increases or decreases in a logarithmic fashion. It is commonly termed, "A rubber yardstick." So, the first thing to watch out for is any manufacturer that claims a certain dB gain without specifying what the gain is referred to. A gain of 3 dB represents an increase of about double the previous amount. Thus, going from 1 watt to 2 watts is a 3 dB gain; also, going from 100 watts to 200 watts is a 3 dB gain! So, as we can easily see, a dB, in and of itself, means nothing without a previous reference point.

That's about enough confusion for one month, so next month we will present a chart showing the relative gain of different types of antennas, along with the advantages and disadvantages of each.

WAKE ARES MEETING DEBRIEFING

By Mary KG4OQA



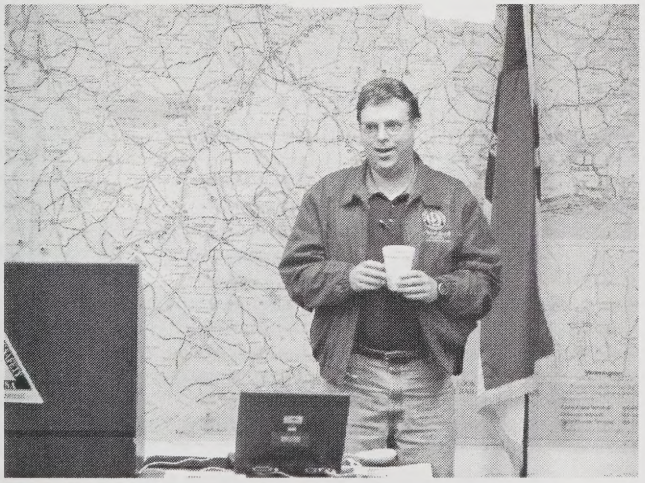
Many local amateur operators participated in the emergency communications efforts during the ice storm in December, either by volunteering at local shelters, the state Emergency Operations Center (EOC), the county EOC, or by volunteering their time with other logistical matters. Wake ARES held a debriefing on February 1st at the state EOC for all who participated in these efforts to address what was done well and what can be improved upon in the future.

John Guerriero KG4HDT and Tom Brown N4TAB facilitated discussion and summarized the statewide and local efforts. Special guest Chan Eaton W1IFL, Communications Function Lead for Disaster Services for the Red Cross, praised the group for their support of the Red Cross during the disaster. Eaton also addressed some of the future plans that the Red Cross has for modernizing its communications capabilities.

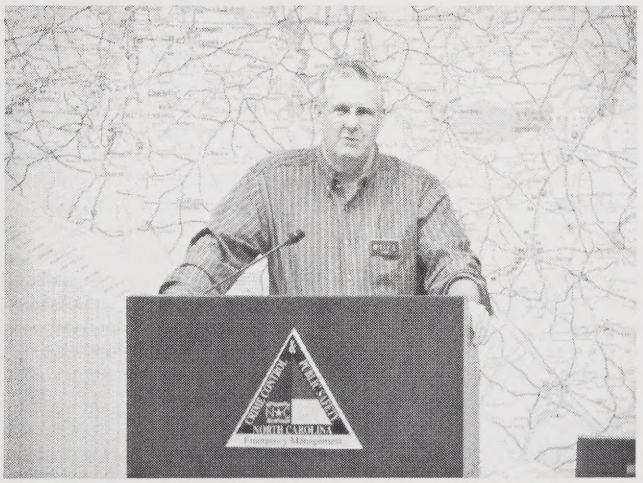
Those in attendance shared a variety of thoughts on what was done well during the disaster. It was overwhelmingly agreed that amateur operators did an exemplary job at the shelters, the EOC's, and anywhere that they were needed. Operators helped across county lines, as this disaster clearly had no county boundaries. Gary Pearce KN4AQ passed around the February issue of CQ that highlighted local efforts during the storm.

As far as suggestions for improvement, ideas focused around the development of overall preparedness, including individual responsibility regarding radio maintenance and knowledge, alternative power sources, and self-sufficiency.

Members are encouraged to keep their skills up to date by regularly participating in the local nets, such as PCTN and the Wake ARES nets.



Frank W4FAL



Chan W1IFL

Photos by David KF4VXJ

EARLY RARS SUPPORTER W4HUW

Most of the present members of RARS are probably unaware of the role that one of the early supporters of RARS, Max Silvers, W4HUW SK, actually played in helping to establish our new fledgling organization. I sorry to report that Max died at the age of 87 on Monday, January 13th 2003.

When the RARS club was still just a few months old a regular meeting place had still not been found. Max contacted me (I was the first president of RARS) to see if we would be interested in meeting in the State Civil Defense area in the sub-basement of the Jones Street Building. He was then serving as Radio Engineer for the State Department of Civil Defense in that facility.

Needless to say, we literally jumped at that opportunity and used the facility for some years until we outgrew it, and coincidentally, the state needed to use that area for other purposes.

Max, W4HUW (or hungry uncle Willie, as he identified himself on the air) assumed a lot of extra responsibility and extended his work day significantly by serving as club sponsor because he had to be present during any period of time that we occupied the facility. His efforts were most appreciated. He met with us and supported us in all ways possible in those early years. And, those were growing years for RARS. Most radio clubs in that era usually had quite small memberships. We watch with great pleasure as the roster reached for 100, which was four or five times the usual club's size.

It was also in that time frame that we put the first RARS repeater (W4DW - 146.64 mHz) on the air using tired old Motorola Railroad hardware. But, it worked and served us well for years.

Max also ran interference for RARS into the Governor's office. Bob Scott was governor at that time, and RARS enjoyed the full support of that governor. Those were interesting times!

RARS owes a lot to good old Max!

Ed Alderman WA4PEN
(Past President RARS)

TECH/TRADER NET
8:30 PM SATURDAYS ON 146.64
TWO NETS IN ONE!

TUNE IN THE RARS NEWS HOUR

- **Newsline**
- **ARRL Audio News**

Sunday Nights following the RARS 8:00 Net on 146.64

RARS Membership Roster

Current to Jan 31, 2003

Please send corrections and updates to the RARS Treasurer

Sorted by Call suffixes

	Larry Carringer	No License	1101 Hillsborough St D-1 Raleigh, NC 27603-	919-829-9178
	Mary Jo Littlewood	No License	2005 Quail Ridge Road Raleigh, NC 27609	919-872-6555
	Lisa Murphy	No License	282B Palmetto Drive Shaw A F B, SC 29152-	
	Camille Durfee	No License	717 Tan Tara Square Raleigh, NC 27615-	unlisted
K4ABJ	Jim Babcock	Advanced	611 Vick Ave. Raleigh, NC 27612	919-787-7816
N4ABX	Mark Trogdon	Technician	2117 Buckingham Rd Raleigh, NC 27607-	919-571-7954
KD4ACK	Sharon Murphy	Extra	7329 Barberry Court Raleigh, NC 27615	919-847-4641
KD4ACW	Cyndi Pearce	Advanced	116 Waterfall Court Cary, NC 27513	919-380-7286
KD4AED	Brock Nicholson	Technician	3219 Tanager Street Raleigh, NC 27606	919-851-5588
KD4APW	Jim Peeler	General	420 Lovinggood Landing Dr Woodstock, Ga 30189-	
KN4AQ	Gary Pearce	Extra	116 Waterfall Court Cary, NC 27513	919-380-9944
KC4AQC	Renard DellaFave	Tech Plus	706 Collington Drive Cary, NC 27511-	919-469-2674
KB4AQH	Annette Rogers	General	5312 Kirkwood Court Raleigh, NC 27609	919-787-7486
KE4ARM	Lou Williams, Jr	Extra	525 Arbor Creek Drive Holly Springs, NC 27540-	unlisted
KR4AS	Rich Saccoccia	Advanced	3500 Vesta Drive Raleigh, NC 27603-3838	919-662-5165
K3ATM	John Messer	Advanced	5020 Springwood Drive Raleigh, NC 27613	919-848-6970
W4AUV	Dale Pendleton	Extra	200 North Trail Dr Raleigh, NC 27615-	919-518-1815
WA4AVU	Don Downs	Extra	201 Council Gap Ct. Cary, NC 27513-8740	919-462-1521
KG4AWE	Herb Liebsch	General	4801 Shawnee Court Garner, NC 27529-9303	919-662-9232
WA4AZL	Neil Little	Advanced	137 Dewar Street Fuquay-Varina, NC 27526	919-557-4755
KG4BDX	Robert Pierpoint	Technician	3805 Yates Millpond Rd Raleigh, NC 27606-	919-834-6431
KD4BFH	David Sutton	Technician	5618 Welkin Court Durham, NC 27713-2029	unlisted
NC4BJ	BJ Jenkins, Sr	Extra	306 N. Orange Ave Dunn, NC 28334-	910-892-3785
KD4BMA	Clement Matthews, Jr	General	800-108 Moratuck Dr Raleigh, NC 27604-1445	919-838-0624
WA4BPJ	Mike Murphy	Extra	7329 Barberry Court Raleigh, NC 27615	919-847-4641
W4BRB	Bernard Blackmon, Jr	Technician	913 Northwoods Drive Cary, NC 27513	919-467-8719
KN4BS	Mike Gingell	Advanced	113 Trotters Ridge Drive Raleigh, NC 27614	919-847-4779
KJ4BX	Steve Ferrarini	Advanced	107 Thomas Place Knightdale, NC 27545-	919-217-1843
W2BYV	Matt Sickles	General	102 Acorn Hill Apex, NC 27502-6546	919-303-6657
N4CAE	Jim Carroll	General	4501 Friendship Rd. Apex, NC 27502-8762	919-362-6334
AE4CD	Chuck Hall, Jr	Extra	3900 Oak Park Rd Raleigh, NC 27612-5623	919-789-9641
KO4CK	Liz White	Extra	863 Neodak Road Apex, NC 27502	919-387-9152
KA8CNR	Judy Weaver	Tech Plus	186 East Siver Belle Drive Zebulon, NC 27597-	919-269-0112
KC4CPD	Bob Wolk	Tech Plus	6001 Clare Court Raleigh, NC 27609	919-848-4812
W4CRB	Chet Burroughs	Extra	117 Windswept Ln. Cary, NC 27511-8938	919-362-4804
W2CS	Gary Ferdinand	Extra	101 Markham Plantation Eagle Rock, NC 27523-	919-303-3625
KE4CSZ	Trudy Conrad	Technician	5819 Sentinel Dr Raleigh, NC 27609-	919-875-1038
KA3CVE	Dot Church	General	27 Fearrington Post Pittsboro, NC 27312	919-967-6915
W4CX	Darrell Gordon	Extra	404 Hillandale Drive Raleigh, NC 27609-	919-783-0560
KG4CXR	Denyse Walter	Technician	625 Springfork Dr. Cary, NC 27513	919-468-5358
KG4CXT	Wes Miller	Tech Plus	7705-202 Network Lane Charlotte, NC 28262-	704-598-3065
KG4CXW	Eric Haywood	Extra	19 Phauff Ct Durham, NC 27703-	919-596-9575
KG4CXY	Bill Cole	General	104 McCloud Ct Cary, NC 27511-5165	919-469-0785
NT4D	Jay Brookover	Extra	1208 Willowbrook Dr. Cary, NC 27511-4521	919-469-3032
K4DAM	Dennis Mason	Technician	517 Killington Dr. Raleigh, NC 27609	919-844-7302
KE4DOX	Clayton Robinson	General	511 Heather Dr Raleigh, NC 27606-1615	919-851-4933
KE4DRI	Ruth Bloodworth	Technician	69 Blue Water Court Wendell, NC 27591-	919-366-9275
KE4DRJ	Joey Murphy	General	282B Palmetto Drive Shaw A F B, SC 29152-	
WB4DRJ	Lee Rogers	Extra	5312 Kirkwood Court Raleigh, NC 27609	919-787-7486
KE4DRL	Katie Murphy	Tech Plus	7329 Barberry Court Raleigh, NC 27615	919-847-4641
KE4DRN	James Marolda	Technician	11929 Fairlie Place Raleigh, NC 27613-7842	unlisted
K4DRT	Mike Stroupe	Advanced	4716 Stonehill Street Raleigh, NC 27609-5320	919-787-6729
KC8DSD	Carol Breidt	Technician	2837 Anfield Road Raleigh, NC 27606-	919-662-1987
KE4DST	Eddie Davis	General	720 King Richard Rd Raleigh, NC 27610-	919-231-8355
NC4DT	Dave Tuttle	Extra	3646 Barber Mill Road Lot#9 Clayton, NC 27520-8189	919-553-6958
N3DWE	John Nalepa	General	1236 Tommies Dr Knightdale, NC 27545-9062	919-266-9754
NJ2E	Don Kalinowski	Extra	944 Ivy Lane Cary, NC 27511-	919-380-9509
KM4EP	Jay Diepenbrock	Extra	4121 Stagwood Drive Raleigh, NC 27613-4217	919-781-2682
W3EPA	Ebb Church	Extra	27 Fearrington Post Pittsboro, NC 27312	919-967-6915
K3EPN	Howard Goodman	Advanced	11620 Pacesferry Drive Raleigh, NC 27614-9024	919-846-0707
KD4EVV	Dawn Stroupe	Technician	4716 Stonehill Street Raleigh, NC 27609-5320	919-787-6729
KD4EWG	Kelly Andrews	Advanced	8608 Timberwind Drive Raleigh, NC 27615	919-870-6923
KC4EYK	Carolyn Mayfield	Technician	PO Box 1273 Wendell, NC 27591	919-365-6291
W3EZR	Roger Moates	Extra	3300 Barnsley Lane Raleigh, NC 27604-5908	919-876-0691
KF4EZT	John Holzapfel Sr.	Technician	2017 Fort Drive Clayton, NC 27520	919-553-3562
KC4FCC	Thomas Jeffries	General	2463 Bragg Street, Box 164 Fort Jackson, SC 29209-	803-790-8439

K4FEP	Mel Harrod	Advanced	3804 Pleasant Valley Road Raleigh, NC 27612	919-787-3004
KE4FEU	Roger Quillin	Tech Plus	5716 Deblyn Ave Raleigh, NC 27612-2608	919-788-8094
AE4FG	Kelly Mills	Extra	6408 Dresden Lane Raleigh, NC 27612	919-846-5375
KD4FHF	Andy Roth, Jr.	Tech Plus	613 Van Thomas Raleigh, NC 27615-5269	919-845-4341
KG4FIJ	Jim Walter	Technician	625 Springfork Dr Cary, NC 27513-	919-468-5358
KG4FIQ	Larry Holt	Extra	2026-D Quail Forest Dr Raleigh, NC 27609-	919-872-4940
KG4FJA	Ronnie Ford	General	3517 Kapulua Way Raleigh, NC 27610-	919-772-9127
W4FMN	Bert Bailey, Jr.	Extra	701 Currituck Dr. Raleigh, NC 27609	919-787-1643
W4FSO	Alex Regi	Advanced	4216 Windsor Place Raleigh, NC 27609	919-787-0161
KA2FWC	Frank Scaraglino	Extra	7904 Pleasant Ridge Road Raleigh, NC 27615	919-870-7260
KN4G	Norm Plaks	Extra	1205 Country Ridge Drive Raleigh, NC 27609-5424	919-876-4192
W2GHK	Sue Meyer Parks	General	206 Ellington Rd Graham, NC 27253-	336-376-6972
WA4GIR	Joe White	Extra	863 Neodak Road Apex, NC 27502	919-387-9152
N1GMV	John Aceti	General	210 Dulcimer Ln Zebulon, NC 27597-	919-404-0595
N4GTI	Will Rowland	Extra	P.O. Box 5241 Raleigh, NC 27650-5241	919-462-8164
KC4HAF	Melissa Tucker	General	2462 Stevens Road Raleigh, NC 27610-	919-832-4982
N4HAF	Neal Fisher, Jr	Extra	312 Penn Oak Circle Raleigh, NC 27615	919-848-8840
N4HAY	Dick Hayter	Extra	204 Ridge Creek Dr Morrisville, NC 27560-7801	919-468-5137
K4HCG	Jim Wisdom	General	3308 Cobblestone Court Raleigh, NC 27606-	919-782-4098
KG4HDT	John Guerriero	General	3412 Ventura Circle Wake Forest, NC 27587-	919-266-7687
K4HF	Chuck Littlewood	Extra	2005 Quail Ridge Road Raleigh, NC 27609	919-872-6555
KG4HGB	John Robert Jaskolka	Technician	501 Shelly Ridge Ln Apt 204 Raleigh, NC 27609-2859	919-676-7190
KG4HJI	Gary Matsey	Technician	1711 Center Road Raleigh, NC 27608-	919-828-7618
W4HJZ	Carl Ebhardt	Extra	22 East Rowan Street Raleigh, NC 27609	919-787-0093
K4HM	Hank Montgomery	Extra	5045 Allanbrooke Lane Fuquay Varina, NC 27526-	919-577-1254
KU4HM	Carl King	Extra	4612 Ryegate Drive Raleigh, NC 27604-3540	919-878-9458
KG4HPE	Patricia Babb	Technician	P.O. Box 250 Holly Springs, NC 27540-	919-557-7008
N4HQZ	Pete Thacher	Extra	1108 Steinbeck Drive Raleigh, NC 27609-	919-608-7618
KB1HVA	Peg Queija	Technician	7622 Welleslet Park North Raleigh, NC 27615-	
KB4HWC	Kathleen Thomas	Tech Plus	P.O. Box 229 Elko, SC 29826-0229	803-266-4759
W8HYD	Dick Bitner	Extra	3408 Ingram Dr Raleigh, NC 27604-	919-872-6802
W1HZQ	Cole Thacher	Extra	417 Myrtlewood Court Raleigh, NC 27609-	919-781-1532
NZ0I	Charles Scharlau	Extra	PO Box 2344 Chapel Hill, NC 27515-	919-932-5464
KG4IJQ	Bud Hollowell	Technician	1400 C Gorman St. Raleigh, NC 27606	919-834-5647
W4IK	Greg Miller	Extra	9408 Hinshaw Rd Wake Forest, NC 27587-	919-528-6510
KB4IP	John Parmenter	Advanced	4605 Latimer Road Raleigh, NC 27609-	919-787-3118
KD4ISC	Dick Orander, Jr.	Extra	1004 Wilshire Drive Cary, NC 27511	919-469-5322
KE4IUK	Al Cooke	Technician	4107 Laurel Ridge Dr. Raleigh, NC 27612	919-787-3823
KF4IUU	Phil Zaleskin	Technician	1015 Woodbriar Street Apex, NC 27502-1371	919-387-7123
KF4IUW	Laurie Jaegers	Technician	6108 Weobley Ln Raleigh, NC 27614-	919-846-2028
N4IXL	Fred Decker	Extra	7112 Electra Drive Raleigh, NC 27607-	unlisted
KG4IYS	Chet Fennell	Technician	416 Solandra Ln Apex, NC 27539-	919-303-3194
KG4IYV	Donna Haywood	Technician	19 Phauff Ct. Durham, NC 27703-	919-596-9575
KG4IZA	Bob Scott	Technician	9321 Langwood Dr Raleigh, NC 27617-5808	919-845-6296
KE4IZW	Terry Boren	Technician	118 Lake Hickory Court Morrisville, NC 27560	919-462-1737
KA2JFG	Betty Hazelbower	Extra	6777 Hwy 96 Oxford, NC 27565	919-693-5296
AF4JG	Bill Powell	Extra	114 Padgett Court Cary, NC 27511	919-303-1900
KF4JKQ	Thomas Babb	Technician	P.O. Box 250 Holly Springs, NC 27540	919-557-7008
KD4JLA	Charlie Griffin	Technician	5405 Ridgeloch Place Raleigh, NC 27612	919-787-7701
KD4JMK	Ken Boone	General	1704 Carpenter Pond Rd Raleigh, NC 27613-8140	919-596-1161
W2JNW	Art Katz	Extra	2637 Churchill Rd. Raleigh, NC 27608-1947	919-881-0247
K8JOI	Glenn Weaver	Advanced	186 East Siver Belle Drive Zebulon, NC 27597-	919-269-0112
W4JPS	John Swain, Jr.	Advanced	3420 Churchill Road Raleigh, NC 27607	919-787-5417
W4KGL	Kerrell Watts	Extra	5509 Huntingwood Dr Raleigh, NC 27606-	919-859-0920
WD4KSE	Mark Freeze	Extra	5017 Springwood Dr. Raleigh, NC 27613	919-844-5017
N4LEW	Larry Wiandt	General	4209 Lassiter Rd. Wake Forest, NC 27587-	919-554-1130
WA4LHE	Glenn Clary	Extra	2125 Davistown Road Wendell, NC 27591-8992	919-266-3115
KG4LTM	Lynn Baird	Technician	3133 Julian Dr. Raleigh, NC 27604-1651	919-876-2225
N3LTV	Doug Wall	Advanced	8024 Wavendon Ct. Raleigh, NC 27615-4614	919-870-5095
W8LUM	Wayne McKendry	General	916 Northwoods Drive Cary, NC 27513-3803	919-467-0213
KA1LXG	Martin Lynch	Extra	109 Kenwood Meadows Drive Raleigh, NC 27603-8813	919-662-5519
K4LXV	Larry Young	Extra	8804 Weathersfield Court Raleigh, NC 27613	919-847-8558
WD4MB	Mike Baldock	Extra	401 Blackberry Creek Drive Willow Spring, NC 27592-	919-639-1028
K4MC	Bob Corns	Extra	1619 Oberlin Road Raleigh, NC 27608	919-828-6005
KB4MDY	Carla Gleason	Technician	419 Willowbrook Drive Cary, NC 27511	919-467-5787
KB4MDZ	Chuk Gleason	Advanced	419 Willowbrook Drive Cary, NC 27511	919-467-5787
KE4MEL	Victor Bur	Technician	3713 Pine Knoll Dr Raleigh, NC 27604-	919-873-1693
KE4MEQ	Jeff Bartholomew	Tech Plus	4509 Connell Drive Raleigh, NC 27612	919-881-2677
WD4MGP	Michael Costable	Advanced	PO Box 1445 Hillsborough, NC 27278-	919-732-6575
WX4MMM	Bob Woodson	Extra	11932 Pembridge Ln. Raleigh, NC 27613	919-846-8484
AE4MN	Paul Morgan	Extra	3543 Mill Run Raleigh, NC 27612	919-483-6195
K1MRB	Marian Breyer	Technician	8004 Clear Brook Dr Raleigh, NC 27615-	919-848-7761

W4MUB	Mark Ennamorato	Advanced	5221 Birchleaf Dr Raleigh, NC 27606-	919-829-0285
K1MW	Mike Wood	Extra	P.O. Box 1979 Wake Forest, NC 27588	919-556-7940
KG4MYD	Matt Runyan	Technician	1620-G Amber Ridge Lane Raleigh, NC 27607-	919-233-3955
ND7N	Ken Coit	Extra	4312 Union St Raleigh, NC 27609-	919-783-6194
NF2N	Stuart Kaskawits	Extra	3017 Ethan Lane Raleigh, NC 27613	919-676-0424
WA9NEW	Bruce Eggers	Advanced	1128 Palo Drive Garner, NC 27529-9376	919-779-0266
KE4NGM	Meme Orander	Technician	6404 Chapman Court Raleigh, NC 27612	919-781-2328
KF4NGR	Herb Allen	Extra	3515 Vesta Drive Raleigh, NC 27603	919-772-4459
KF4NIR	Ralph Embrey	Tech Plus	505 North Glen Dr Raleigh, NC 27609-	919-789-0550
W4NOT	Tim Nicholson	General	4817 Loganshire Ln Raleigh, NC 27616-	919-501-7746
KA4NSA	Alan Plaks	Extra	8260-102 Hempshire Pl. Raleigh, NC 27613-	919-412-6987
KG4NUN	Jeffrey Morgan	Technician	4632 Gamelyn Walk Raleigh, NC 27612-	919-787-5121
KD4OKP	Ginger Merkle	Tech Plus	4908 Birchleaf Dr Raleigh, NC 27606-	919-835-0970
KD4OLP	John Rosenquest	Technician	11600 Black Hourse Run Raleigh, NC 27613-	919-846-0533
KD4OLZ	Nola Alderman	Technician	3101 Julian Drive Raleigh, NC 27604	919-876-0340
WA4OMM	Ray Thomas	Advanced	P.O. Box 229 Elko, SC 29826-0229	803-266-4759
AG4OO	Paul Bohne	General	4901 Hill Pl Raleigh, NC 27613-1000	919-676-2507
KG4OPZ	Dave Holtschneider	Extra	007 Akal Court Durham, NC 27713-7549	919-572-2571
KG4OQA	Mary Holtschneider	Extra	007 Akal Court Durham, NC 27713-7549	919-572-2571
KE4OQO	Mike Milan	Tech Plus	124 Mohawk Drive Garner, NC 27529-	919-601-8035
WA4OTA	Tom Alexander	Advanced	2831 Exeter Cir Raleigh, NC 27608-	919-782-1270
AB4OZ	Alan Pitegoff	Extra	3632 Blue Ridge Road Raleigh, NC 27612	919-787-1111
N4OZL	John Callery	Technician	3621 Bond Street Raleigh, NC 27604-3801	919-231-7288
K8OZS	Craig Burget	Extra	6708 Folinsbee Ct Raleigh, NC 27616-8911	919-217-0722
KQ2P	Gary Jacobsen	Extra	4519 Bahama Road Rougemont, NC 27572	919-471-8364
KE4PAX	Greg Seamster	Technician	1405 Leanne Ct. Raleigh, NC 27606-4142	919-859-0029
N4PBB	Ed Cook	General	4921 Allanbrooke Lane Fuquay Varina, NC 27526-	919-557-5779
KD4PCD	Buddy Pate	General	1605 Acer Ct Raleigh, NC 27615-3501	919-847-7849
KB4PCK	Bill Bunting	Tech Plus	310 Creek Park Drive Cary, NC 27513-	919-481-0667
WA4PEN	Ed Alderman	Extra	3101 Julian Drive Raleigh, NC 27604	919-876-0340
KG4PFA	Virginia Enzor	Technician	303 Bayoak Drive Cary, NC 27513-	919-469-8555
W5PGX	Ashby Spratley, Jr.	Extra	106 Tafton Court Garner, NC 27529-4325	919-662-1626
KE4PNT	Randy Bittle	Technician	829 Valerie Dr. Raleigh, NC 27606	919-851-8756
KE4PPW	Nancy Brown	Technician	13033 Powell Road Wake Forest, NC 27587919-556-8551	
AA4PQ	Steve Arnold	Extra	4449 Labrador Drive Raleigh, NC 27616-	919-217-5811
KA3PSK	Rick Merkle	General	4908 Birchleaf Dr Raleigh, NC 27606-	919-835-0970
K4PSP	Mike Falzone	General	2631 Glen Eden Drive Raleigh, NC 27612-	919-781-8838
WB2QFZ	Bill Grahn	General	4605 Greenbrier Rd. Raleigh, NC 27603-3813	919-772-5088
KG4QHG	Robert Grinnell	Technician	803 Castalia Drive Cary, NC 27513-	919-481-9409
KG4QHL	Walter Stanley	General	1416 Major Slade Road Wendell, NC 27591-	919-266-3605
WB8QJN	John Ohl	General	312 Faison Dr. Knightdale, NC 27545-8989	919-266-7737
KA9QJT	Brian Young	General	8705 Neuse Village Court Raleigh, NC 27616-	919-954-2178
KF4QMR	Beth Carroll	Technician	4501 Friendship Rd. Apex, NC 27502-8762	919-362-6334
KA3QPU	Cathy Downs	Extra	201 Council Gap Ct. Cary, NC 27513-8740	919-462-1521
AC4QX	Red Taylor	Extra	1015 Surrey Ct. Cary, NC 27511-4109	919-467-4604
AG4QZ	Maury Cupitt	Extra	104 Waverly Place Durham, NC 27713-	919-484-7881
K4QZN	Alan Neely	General	2209 Middlefield Ct Raleigh, NC 27615-	
KD4RAA	Danny Musten	Technician	1511 Duplin Road Raleigh, NC 27607	919-781-1843
AD4RC	Ferdinand Lundberg	Extra	103 November St Garner, NC 27529-	919-779-2626
K1RCB	Bob Breyer	Tech Plus	8004 Clear Brook Dr Raleigh, NC 27615-	919-848-7761
KF4RDP	Cliff Broughton	Extra	4621 Pleasant Grove Ch Rd. Raleigh, NC 27613	919-787-8909
KF4RDU	Hughie Olmsted	Technician	1300 Wicklow Dr. Cary, NC 27511-4424	919-467-7836
KF4REB	Don Coordes	Extra	13001 Camp Kanata Rd. Wake Forest, NC 27587	919-556-5664
KF4REC	Bill McGraw	Technician	2213 Kornegay Drive Raleigh, NC 27603-	unlisted
W4RGC	Dick Carter	General	2600-106 Garden Hill Drive Raleigh, NC 27614-6517	unlisted
AG4RH	Brett Guenther	Extra	307 Tattenhall Drive Apex, NC 27502-4418	919-363-8704
KG4RIV	Billy Bunting	Technician	200 Downing Glen Drive Morrisville, NC 27560-	919-481-4223
KG4RIY	David Pate	Technician	1605 Acer Court Raleigh, NC 27615-	919-847-7849
N2RJB	Clare Owens	Extra	101 Grassy Ridge Ct Apex, NC 27502-	919-363-7608
K4RLC	Bob Conder, Jr	Extra	1812 Spiny Ridge Ct Raleigh, NC 27612-	919-847-7253
KG4RMO	AJ Bunting	Technician	310 Creek Park Drive Cary, NC 27513-	919-481-0667
KG4RMT	Selene Montgomery	Technician	5045 Allanbrooke Lane Fuquay Varina, NC 27526-	919-577-1245
K2RTB	Robert Bell	Technician	8 Glen Garnock Circle Raleigh, NC 27613-8123	unlisted
KG4RTT	Mark Smith	Technician	4708 Old Plank Rd. Apt 1009 Raleigh, NC 27604-	919-876-7981
N4RWZ	Rahul Patel	Tech Plus	104 Rodwell Court Cary, NC 27511-9190	919-858-7700
KB4RZ	Rick Jackson	Extra	3347 Alamance Drive Raleigh, NC 27609	unlisted
NI4S	Andy Peterson	Extra	6901 Dawnalia Ct Raleigh, NC 27613-	919-845-6251
KC4SAM	Giff Moore	Extra	233 Windsor Wynd Place Fuquay Varina, NC 27526-6629	919-567-2850
K4SAN	Dave Thomas	Extra	7905 Merrimac Drive Apex, NC 27502	919-772-6338
KF4SER	Harriette King	Technician	4612 Ryegate Drive Raleigh, NC 27604-3540	919-878-9458
NC4SJ	Sam Johnson	Extra	4816 Morehead Drive Raleigh, NC 27612	919-787-0603
K8SL	Rolf Andersson	Extra	2836 Mattlyn Court Raleigh, NC 27613-6510	919-848-4033
KD4SLQ	Wayne Blackwell	Tech Plus	7823 Harps Mill Road Raleigh, NC 27615-5430	919-847-0434
KJ4SO	Woody Winstead	Extra	3626 Laurel Hills Rd Raleigh, NC 27612-	919-787-7509

K3SPC	Joe Snyder	Advanced	3344 Harden Rd Raleigh, NC 27607-3304	919-781-0225
KG4QHL	Walter Stanley	Extra	1416 Major Slade Road Wendell, NC 27591	919-266-3605
WA2SRY	Larry Stowell	General	5422 Stephens Lane Durham, NC 27712-	919-620-9857
WA2SRZ	Vince Manoogian	Extra	234 Crestview Drive Durham, NC 27712-2310	919-471-8792
N4SSU	Edward Breeden, III	General	8604 Windjammer Drive Raleigh, NC 27615	919-846-6839
KG4SWB	Doug Bowler	Technician	6029 Sweden Dr. Raleigh, NC 27612-	919-676-7593
KG4SWE	Dan Hartmann	Technician	2610 Kilgore Ave Raleigh, NC 27607-	919-835-0783
KG4SWF	Annie Heffron	Technician	Address not published at member's request.	unlisted
KG4SWI	John Miles	Technician	820 Kimpton Ct Fuquay Varina, NC 27526-	919-557-9954
KF8SY	Ed Westlake	Advanced	1304 Cool Springs Rd Raleigh, NC 27614-	919-844-4922
KC4SYV	Sandy Thomas	Tech Plus	7905 Merrimac Drive Apex, NC 27502	919-772-6338
WA9SZL	Johnnie Mayfield	General	P.O. Box 1273 Wendell, NC 27591	919-365-6291
KG4SZM	Russ Kegley	General	121 Mary Michael Lane Benson, NC 27504-	919-207-1295
N4TAB	Tom Brown	Extra	5525 Old Still Road Wake Forest, NC 27587-	919-528-3104
KC4THW	Kevin Littlewood	General	2005 Quail Ridge Road Raleigh, NC 27609	919-872-6555
WA4TLI	Bert Carter	Extra	1006 Reedy Creek Road Cary, NC 27513	919-467-4522
KE4TMN	Paul Mobus	Technician	1617 Wedgeland Drive Raleigh, NC 27615-5915	919-847-1770
KE4TMO	Chris Siegl	Technician	1014 New Chester Ct. Apex, NC 27502	919-362-6104
AG4TS	Matt Bass	Extra	401 Brandywine Circle Raleigh, NC 27614-9672	unlisted
KG4TTB	Dick Hellkamp	Technician	8912 Blakehurst Drive Raleigh, NC 27617-	919-783-8319
KE4TTS	Jerry Davis	Advanced	830 Chip Circle Cary, NC 27513-4306	919-467-8935
N4TUC	John Forbes	Tech Plus	1608 Burnley Dr. Cary, NC 27511-5045	unlisted
KO4TV	Max Bloodworth	Extra	69 Blue Water Court Wendell, NC 27591-	919-366-9275
K7UGT	Ken Slough	Extra	7008 Carpenter Fire Station Road Morrisville, NC 27560-8606	919-388-4285
AD4UL	Doug Sweet	Extra	4445 Grand Meadows Blvd Melbourne, FL 32934-2956	321-255-7631
KG4UMR	Sherry Kaskawits	Technician	3017 Ethan Lane Raleigh, NC 27613-	919-676-0424
N4UOQ	Noble Phelps-Breeden	Tech Plus	8604 Windjammer Drive Raleigh, NC 27615	919-846-6839
KC4UQN	Bruce Buck	General	305 Hillstone Drive Raleigh, NC 27615-4913	919-848-4538
KF4UQZ	Liz Stanley	Extra	1416 Major Slade Road Wendell, NC 27591	919-266-3605
N5UTR	Jay Langley	Tech Plus	P.O. Box 97744 Raleigh, NC 27624	919-870-9915
KG4UXS	Andrew Messer	Technician	5020 Springwood Drive Raleigh, NC 27613-	919-848-6970
WA2UZO	Joe Zobkiw	Technician	4109 Highbrook Trail Raleigh, NC 27616	unlisted
W4VFJ	Charlie Brown, Jr.	Extra	13033 Powell Road Wake Forest, NC 27587	919-556-8551
N4VGK	Christopher Blackmon	General	142 Dullis Cir Garner, NC 27529-	unlisted
KC9VJ	James Shelby	Advanced	123 Crestview Road Raleigh, NC 27609-4408	919-783-6367
KG4VNL	Mark Clark	Technician	2917 Mountain Ash Court Raleigh, NC 27614-	unlisted
N4VQN	Bob Rinn	Extra	509 Brittany Bay W Raleigh, NC 27614	919-847-6185
N4VQQ	Ken White	Tech Plus	1609 Olde Chimney Ct Raleigh, NC 27614-	919-518-2949
N4VQT	Rick Yost	General	7204 St. Ledger Drive Raleigh, NC 27613-3545	919-848-7887
KF4VXJ	David Crawford	General	4109 N. Juniper Ct. Raleigh, NC 27612	919-781-0727
KY4W	Frank Weiss	Extra	1210-101 New World Circle Raleigh, NC 27615-	919-845-6850
AG4WE	Fred Breidt	Extra	2837 Anfield Road Raleigh, NC 27606-	919-662-1987
AD4WI	Kent Hoffman	Extra	408 Morrison Ave. Raleigh, NC 27608	919-833-6909
KD4WQU	David Marable	Technician	P.O. Box 13322 Durham, NC 27709-3322	unlisted
KD4WTL	Sharon Freeze	Tech Plus	5017 Springwood Dr. Raleigh, NC 27613	919-844-5017
AF4WY	Mike Copeland	Extra	2636 Hwy 64 West Apex, NC 27502-8430	919-362-1807
N4XOT	Craig Journey	Technician	1838 Wheeler Drive Angier, NC 27501-	919-639-5864
AE4XV	Bill Schmitt	Extra	6808 Cool Pond Rd Raleigh, NC 27613-	919-844-8307
W2YBN	John Mentha	Extra	5124 Swisswood Drive Raleigh, NC 27613-7018	919-846-0473
W4YC	Ed Engebretson	Extra	1308 Hunting Ridge Road Raleigh, NC 27615-7021	919-847-1030
W4YDY	Dave Langley	Extra	2716 Woodmoor Dr. Greenville, NC 27858-	
N4YGU	Paul Bryant	Extra	3000 Hambridge Ct. Apex, NC 27502-	919-303-7034
N2YL	Linda Ferdinand	Extra	101 Markham Plantation Eagle Rock, NC 27523-	919-303-3625
N4YRB	John Irwin	Advanced	1900 Pony Run Road Raleigh, NC 27615	919-872-7654
N4YRD	John Jaskolka	Tech Plus	501 Shelly Ridge Ln Apt 204 Raleigh, NC 27609-2859	919-676-7190
N4YRO	Barbie Yost	Tech Plus	7204 St. Ledger Drive Raleigh, NC 27613-3545	919-848-7887
NW4Z	Jeff Scofield	Extra	104 Kettlebridge Drive Cary, NC 27511-6346	919-362-9691
K4ZAD	Tom McKee	Advanced	104 Water Leaf Lane Cary, NC 27511-9728	919-851-2542
KF4ZEF	David Krum	Technician	1012 Meadowbrook Dr Garner, NC 27529-2826	919-779-6413
KF4ZIX	Alicia Embrey	Technician	505 North Glen Raleigh, NC 27609-	919-789-0550
KF4ZMV	Vincent Heffron	Technician	Address not published at member's request.	unlisted
KE4ZNQ	Leslie Phipps	Technician	817 Kimpton Court Fuquay Varina, NC 27526-1656	919-552-0352
KE4ZNS	Conner Atkeson	Technician	104 Two Does Ln. Clayton, NC 27520-8492	919-553-2719
KE4ZNT	Frank Bartucca	General	6108 Weobley Raleigh, NC 27614-9200	919-846-2028
AC4ZO	Jeff Wittich	Extra	211 Dundalk Way Cary, NC 27511	919-362-4787
WB5ZPQ	Joe Saah	Advanced	114 Village Ct. Garner, NC 27529	919-779-5659
WB4ZSM	Audrey Browne	General	743 Brookside Drive Toms River, NJ 08753-	
N4ZUD	Terri Jaskolka	Tech Plus	501 Shelly Ridge Ln Apt 204 Raleigh, NC 27609-2859	919-676-7190
WB4ZVR	Chip Mack, Jr	Advanced	1909 Topsfield Court Raleigh, NC 27615-	919-870-8324
KD4ZVS	BJ Clary	Technician	2125 Davistown Road Wendell, NC 27591-7964	919-266-3115
N4ZVU	Israel Pattison	General	PO Box 19212 Raleigh, NC 27619-9212	unlisted
KD4ZVV	Peter Hoffman	Technician	408 Morrison Ave. Raleigh, NC 27608	919-833-6909
KD4ZVW	Bobbie Wittich	Technician	211 Dundalk Way Cary, NC 27511	919-362-9456
KF4ZXK	Joshua Thomas	Technician	7905 Merrimac Dr Apex, NC 27502-	919-772-6338

RARS NEW MEMBERS

FEBRUARY 2003

We would like to welcome our new members to RARS. Thank you for considering us for your amateur radio club.

DICK W4RGC VIRGINIA KG4PFA
TIM W4TIM

GIL KG4Y?? Gil passed the test at the Feb RARS meeting and waiting for his ticket. **Congratulations Gil.**

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KID'S DAY (Front Cover)

By Bob K4RLC

Kid's Day is an ARRL activity, designed to expose young people to amateur radio. It occurs twice a year, in January and June. Kid's Day is a time to invite young people (licensed or not) into your shack and give them the opportunity to talk with other kids around the country or in other countries. Traditionally, the kids exchange their name, age, location and favorite color. Frequencies are recommended in the 20, 15 and 10 meter bands.

This past Kid's Day, the IRLP operated a national net for those without HF access, or who couldn't fight the propagation problems. Some special adult stations are usually on, giving the kids a special contact. For example, W5RRR at NASA/Johnson Space Center where the astronauts take classes for their ham licenses, usually operates every Kid's Day. The operators encourage the kids to "keep your eyes on the skies, look to the stars, and follow your dreams." W5RRR's QSL has several color photos of the Space Shuttle, and kids really like it!

Hopefully, with this hands-on experience on-the-air, young people talking with other young people over the magic of ham radio, will want to eventually obtain their own ham license. They may even grow up to enjoy Field Day. Colorful certificates for each child can be downloaded from the ARRL website to commemorate their participation in Kid's Day.

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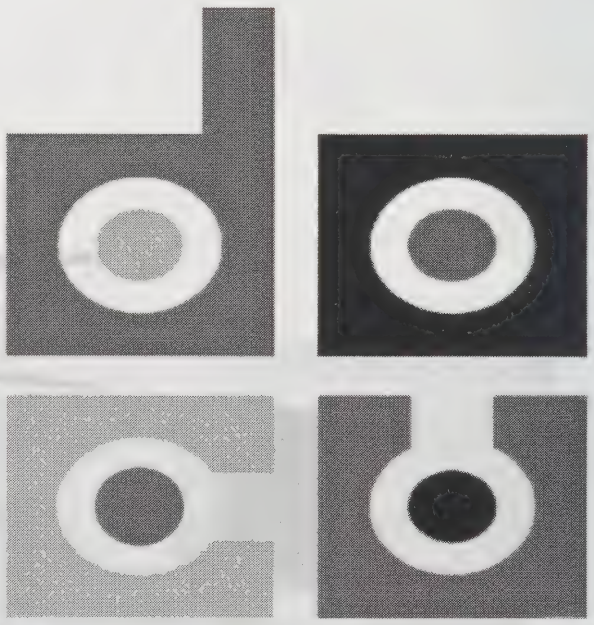


DOCUSOURCE

relax; docusource it.

RARS Board Meeting – November 19, 2002

The meeting was called to order by President Bernard Blackmon W4BRB at 7:30. Board members present included: K1RCB, KA2FWC, KG4OQA, NI4S, WA2UZO, K4HM, AC4ZO, KE4PAX. Guests included KG4RMT, KD4ZVW , N4IXL

VP Report – Bob's arranged entertainment for the Holiday party – music by guitar and flute.

FM/Repeater report – KA2FWC says N4TAB has promised the 444.525 repeater by the weekend. W4BRB said the NC State site for 145.13 is almost ready. It needs a piece of hardline run.

Net Manager report – KG4OQA announced that the RARS 8 PM net participated in the annual Statewide Simulated Emergency Test using emergency power and temporary antennas.

Webmaster report – WA2UZO reported that W4NOT is working on hamfest volunteer schedule on-line, with volunteers able to enter their own info.

Member services report – Nothing to report

Hamfest report – K4HM says info is out to dealers. Advertising to the public starts in January.

PIO report – KN4AQ reported that Thomas Babb, EC Central Carolina SKYWARN, was able to get media coverage on News 14 of amateur radio operator activity during the storms through NC and Tennessee.

Education – KN4AQ said class will start early in March. No info available on the code class that was rumored for fall.

ARRL – K1RCB and KD4ISC have passed their Level 1 ARRL course, and are ready to mentor.

Public Service – no report.

Unfinished business:

NI4S reported that he has found a deal on a Mitubishi projector with free spare bulb. He will review it with Greg and arrange purchase.

Treasurer's report - KE4PAX said taxes have been completed and mailed. He will set up financial review with committee soon. There's 278 members.

W4BRB received note from Lou Olsen – has satellite equipment (dishes, test equipment at 4 GHz, new in box) to get into hands of hams. RARS can help publicize this on the mailing list.

On-Line Dues/ payment. WA2UZO presented his proposal to implement dues and hamfest payment via PayPal, starting from the RARS web site (but being completed at the PayPal site). He proposes that members pay the same rates, using same pro-rated schedule. RARS will cover the small PayPal cost. A "donation" option will be available for those who want to contribute more than the minimum dues. Members will use a new on-line form that will calculate the pro-rated dues. One change from Joe's proposal was to drop the offer to join in April and get dues free until June. That deal will be offered only at the Hamfest.

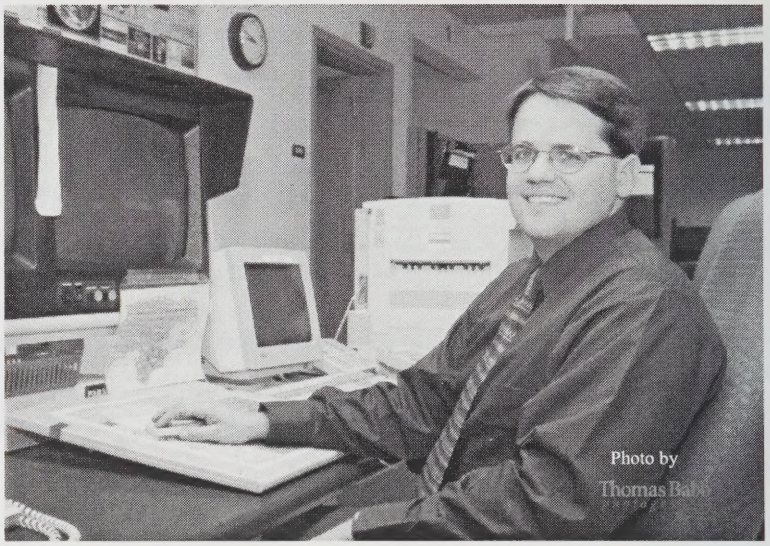
AC4ZO moved, KA2FWC 2nd to cancel the December Board Meeting, as is the Board's custom.

W4BRB thanked all board members for their hard work this year. The meeting adjourned at 9:40 pm

Filling in for the Secretary – Gary Pearce KN4AQ

The Central Carolina Skywarn Net Meets Tuesdays at 9:15 PM on 146.88 Repeater

Remember to give damage reports AFTER the storms as well as DURING the storms.



JEFFERY ORROCK

SKYWARN MONTHLY DINNER MEETING

by Thomas KF4JKQ EC Skywarn Wake County

We have a new national weather service warning coordination meteorologist, Jeffrey A Orrock from Newport National Weather Service. We welcome Jeff to our area. Our first spotters class will be held at the Fuquay Fire station #1 on Monday, April 14. There will be limited seating. Please email Thomas Babb kf4jkq@arrl.net if you would like to attend.

Our Monthly skywarn dinner in March 30, 2003 will be announced on the nets. We hope to move the dinner to different areas so everyone can attend.

On 4th Tuesday, 6:30 pm at Fat Daddy's on Glenwood Ave.

IN-THE-LOOP
RALEIGH RAGCHEW NET

Every Wednesday 9:30 145.19

HAMFEST CALENDAR

March 8-9	**Charlotte, NC**
March 23	**Kinston, NC**
APRIL 13	**RALEIGH,NC**
April 5	**Union, SC**
April 19	**Morganton, NC**
May 10	**Durham, NC**
May 16-18	**Dayton, OH**

Courtesy of the SERA Repeater Journal

RARS GENERAL MEMBERSHIP MEETING
Tuesday, February 4, 2003

Photos by Jim KG4FIJ

President Bernard Blackmon called the meeting to order at 7:30 PM and welcomed guest Jack Pegram.

Treasurer's Report (Greg KE4PAX): There are currently 285 members

Announcements (by W4BRB unless otherwise stated):

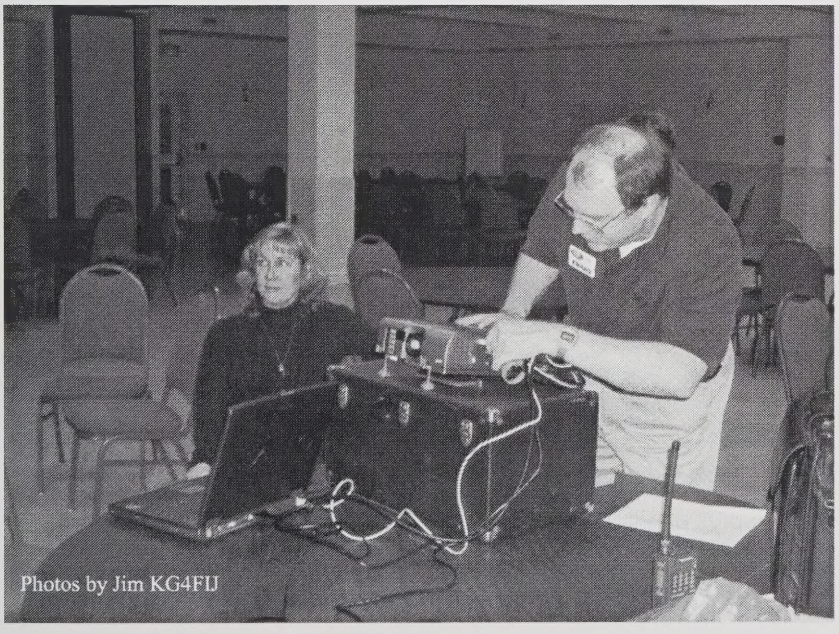
Carl King KU4HM is recovering from a back injury and has asked for assistance to re-attach his 80-meter antenna that was blown down in a recent storm.

- **Next RARS Technician Class will start in March. Need volunteers to distribute advertising flyers.**
- **Still looking for help at the upcoming Hamfest. Jeff AC4ZO has tickets for sale.**
- **John KG4HDT announced the new PCTN Traffic Net Manager is Mike AD4MP.**
- **Tanner Lovelace from the organization "Odyssey of the Mind" requested assistance of hams for their upcoming festival. Bob K1RCB is working this.**

Andy NI4S introduced the program for the evening, which was an orientation and review of RARS repeaters by Gary KN4AQ and Fred Decker N4IXL.

Door prizes were won by: KB4TYE, KA2FWC, KG4CXR, and KG4SWI.

The meeting adjourned at 9:22 PM.
Respectfully submitted by Jim Walter KG4FIJ, Secretary.


Photos by Jim KG4FIJ

Photos of the 145.13 repeater to be installed at the DH Hill Library site.

Above picture is Tom N4TAB (left) and Fred N4IXL getting the repeater ready for the meeting.

Gary is checking out the RARS' new video projector. The projector can show computer graphics, videotape and DVD (even HDTV!). RARS will use the projector for meetings and classes. Gary's xyl Cyndi KD4ACW (seated) actually hooked the projector up, but Gary stepped into the limelight as the picture was snapped.

The RARS Exciter MARCH, 2003

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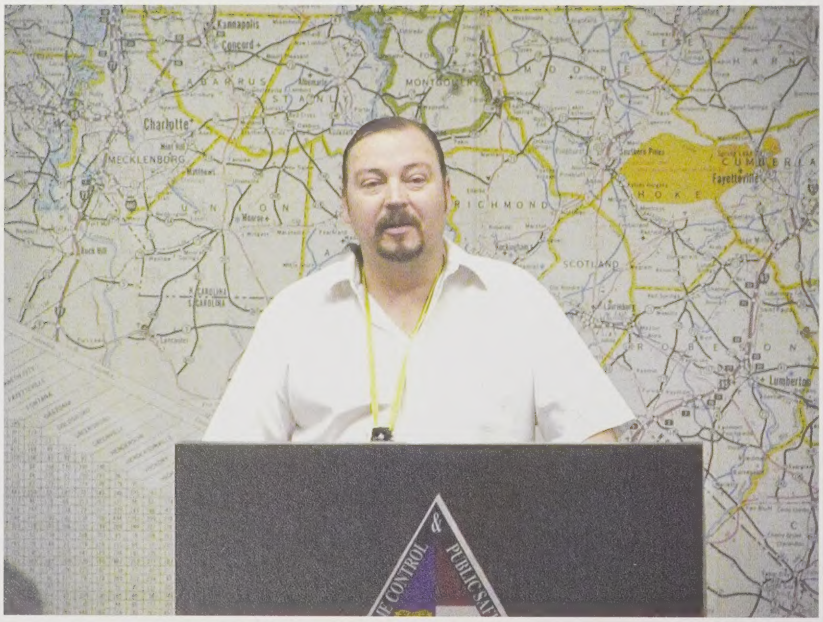

Photo by David KF4VXJ

February 1, 2003 Wake ARES held a debriefing at the State EOC. John KG4HDT, EC Wake ARES, facilitated the meeting with Tom N4TAB. Story on page 5.